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**ALEXANDRIA, VIRGINIA 22314**

**(703) 684-1120**

**PATENT, TRADEMARK  
AND COPYRIGHT LAW**

**FACSIMILE: (703) 684-1157**

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03917 U.S. PTO  
10/720308  
112503

13281 U.S. PTO  
112503

**Date: November 25, 2003**

**Attorney Docket No. H-1121**

**CUSTOMER NO. 24956**

**To: Commissioner for Patents**

**P.O. Box 1450**

**Alexandria, VA 22313-1450**

**Sir: Transmitted herewith for filing is the patent application of:**

**Inventor: Y. KANEDA et al**

**For:**

**DATA STORAGE SYSTEM, DATA STORAGE APPARATUS,  
COMPUTERS AND PROGRAMS**

**Enclosed are:**



**9** Sheets of Drawings



This application is being filed without an executed Declaration.



Priority is claimed from Japanese Application No. 2002-344812 (which is hereby  
filed November 28, 2002. ☒ A certified copy is attached herewith. **incorporated by  
reference**)



Copies of the disclosure documents listed on the attached PTO 1449 form and  
☐ discussed in the specification or ☐ attached Information Disclosure Statement.



Small entity status under 37 CFR 1.9 and 1.27 is hereby claimed.



Specification: Abstract X, Description 34 pages; and 13 claim(s).



Preliminary Amendment.



Executed Declaration.

**The filing fee is calculated as shown below:**

**Small Entity**

**Large Entity**

For:	No. Filed	No. Extra
Basic Fee		
Total Claims	13 - 20 = *	0
Indep Claims	8 - 3 = *	5
<input type="checkbox"/> Multiple Dependent Claim (s)		

\* If difference is less than zero  
then enter '0' in second column

Rate	Fee
	\$ 375
x 9	\$
x 42	\$
+ 140	\$
Total	\$

**OR**

Rate	Fee
	\$ 770
x 18	\$ 0
x 84	\$ 420
+ 280	\$ 0
Total	\$ 1,200



A check or credit card payment form in the amount of \$ 1,200.00 is enclosed for the filing fee.



The Commissioner is hereby authorized to charge any additional fees that may be required to  
Deposit Account No. 50-1417.

**Respectfully Submitted,**

**By:**

**John R. Mattingly**

**Registration No. 30,293**

LIST OF INVENTORS' NAMES AND ADDRESSES

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Ayumi MIKUMA, Kawasaki, JAPAN.